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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/049,270	06/27/2002	Hui Zhong	Q68281	9445
23373 75	90 05/19/2004		EXAMINER	
SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			DINH, TUAN T	
SUITE 800	· · · · · · · · · · · · · · · · · · ·		ART UNIT	PAPER NUMBER
WASHINGTON	N, DC 20037	*	2827	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/049,270	ZHONG ET AL.
Offic Action Summary	Examiner	Art Unit
	Tuan T Dinh	2827
The MAILING DATE of this communication app Peri d for Reply	ears on the c ver sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	si6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on	· .	
2a) This action is FINAL . 2b) This	action is non-final.	
3) Since this application is in condition for allowar closed in accordance with the practice under E		
Disposition of Claims		
4)⊠ Claim(s) <u>1-35</u> is/are pending in the application.		
4a) Of the above claim(s) is/are withdraw		
5) Claim(s) is/are allowed.	:	•
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) <u>1-35</u> are subject to restriction and/or e	election requirement.	
Application Papers		•
9) The specification is objected to by the Examine	r.	•
10) The drawing(s) filed on is/are: a) acce		Examiner.
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119	·	• .
12) ☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. & 110/a) (d) or (f)
a) All b) Some * c) None of:	priority under 35 0.5.C. § 119(a))-(u) 01 (1).
1. ☐ Certified copies of the priority documents	s have been received	
2. Certified copies of the priority documents		on No
3. Copies of the certified copies of the prior		
application from the International Bureau		
* See the attached detailed Office action for a list		ed.
	•	·
Attachment(s)		
1) Notice of References Cited (PTO-892)	4) Interview Summary	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Di	ate Patent Application (PTO-152)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atom Approation (FTO-102)

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DETAILED ACTION

Election/Restrictions

1. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

Specie I

Figures 1-5.

Specie II

Figures 6-10.

Specie III

Figures 11-15.

Specie IV

Figures 16-20.

Specie V

Figure 21.

Specie VI

Figures 22-26.

Specie VII

Figures 27-31.

Specie VIII

Figures 32-36.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include

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all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a). Currently, there are no generic claims as to above species

2. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: there are so many alternate embodiments (species I-VIII) showing a part of a manufacturing processes of a multilayered printed circuit board.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "<u>IC chip</u> connected with said multilayered printed circuit board through said solder bump, claims 22 and 29, lines 7-8" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

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A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claims 22 and 29 are identical and the same language claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 571-272-1929. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan Dinh May 14, 2004.

Charlinary Examiner